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**Ambient Air monitoring at the Waste Isolation Pilot Plant/ New Mexico conducted by
NMED/DOE OB for the First Calendar Quarter 2009**

The New Mexico Environment Department (NMED) DOE Oversight Bureau has compiled and assessed ambient air data collected during the first calendar quarter 2009. The accompanying data report includes results from ambient air stations around the WIPP, the Oversight Bureau Office in Carlsbad, and the Malaga Volunteer Fire Department.

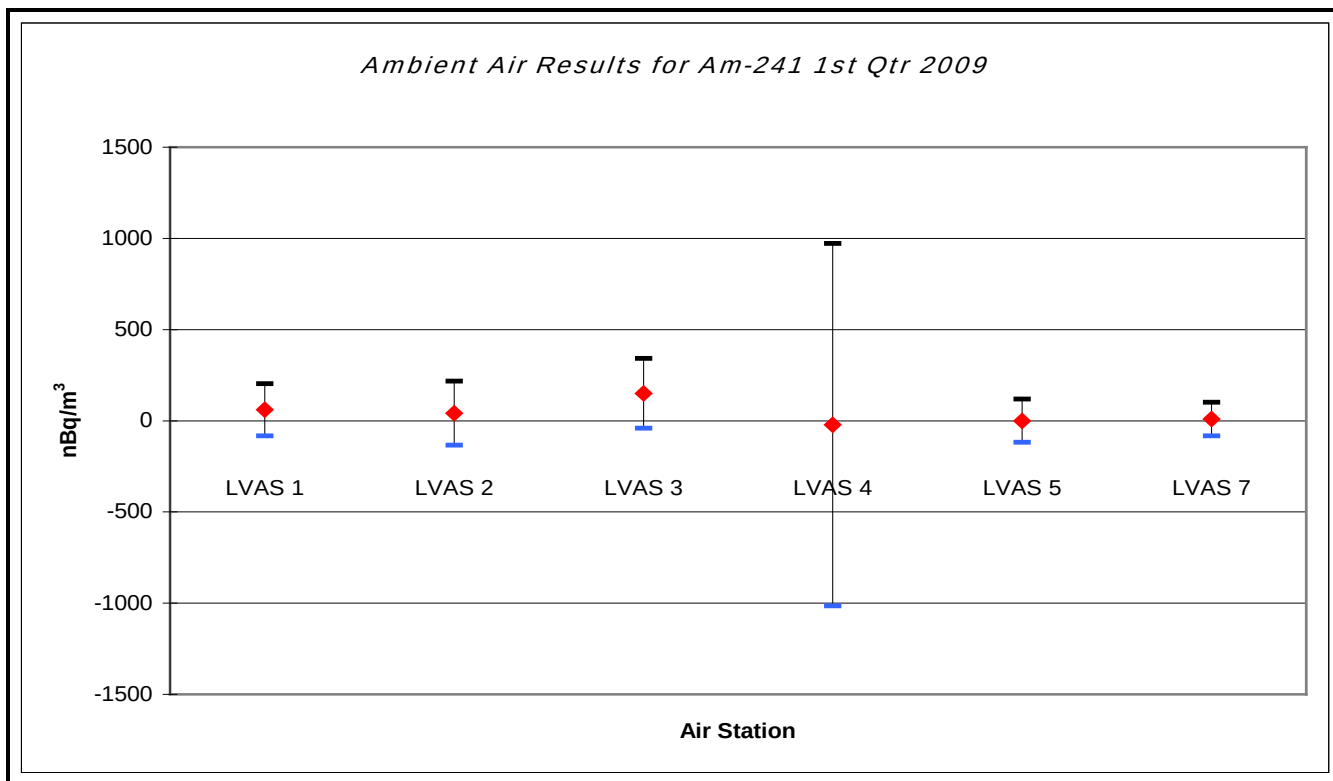
The accompanying graphs for each analyte indicate the results in nBq/m^3 , $\pm 2\text{TPU}$, from the Oversight Bureau's six operational ambient air stations.

Response

Questions and or comments may be addressed to Thomas Kesterson by phone at (575)-887-6851, by e-mail at thomasl.kesterson@state.nm.us, or to the address in the above letterhead.

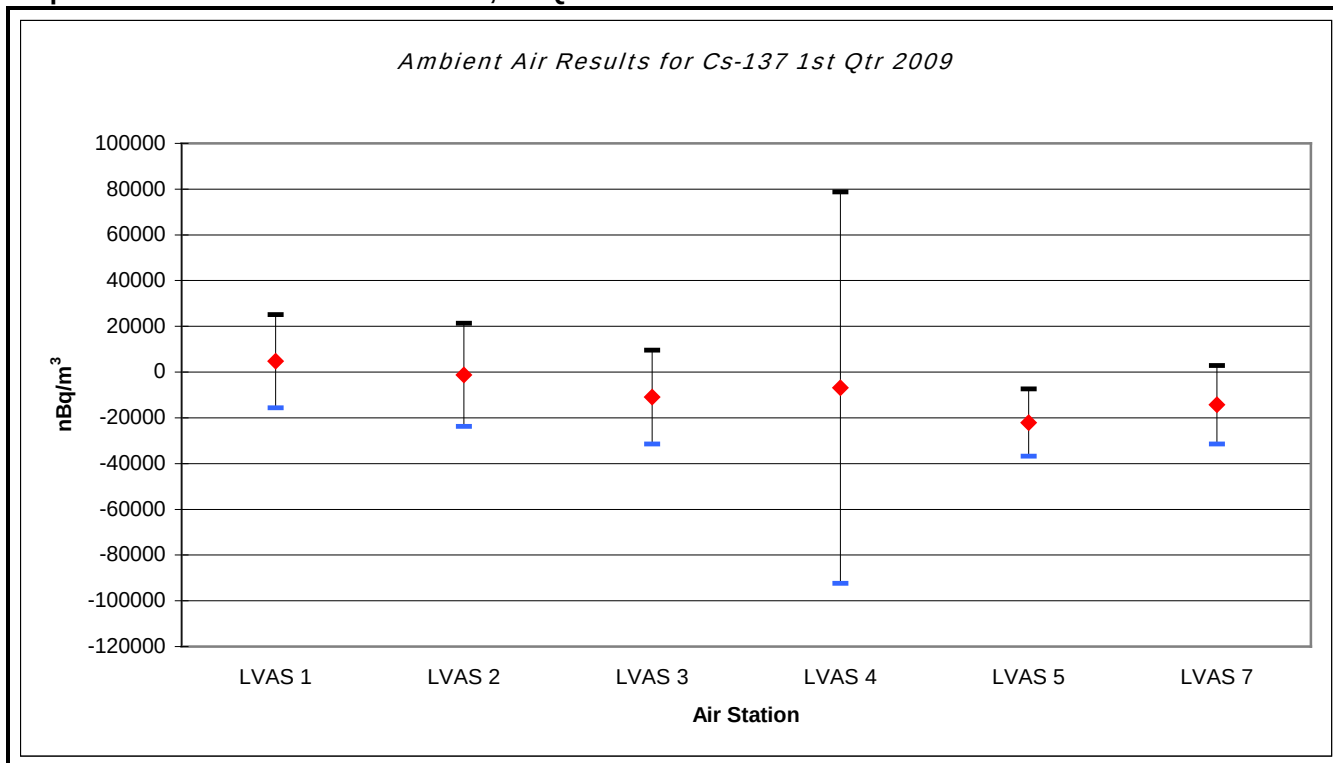
- Enclosures: 1. Graph 1 – Ambient Air Results for Am-241, 1st Calendar Qtr 2009.
2. Graph 2 - Ambient Air Results for Cs-137, 1st Calendar Qtr 2009.
3. Graph 3 – Ambient Air Results for Pu-238, 1st Calendar Qtr 2009.
4. Graph 4 – Ambient Air Results for Pu-239/240, 1st Calendar Qtr 2009.
5. Graph 5 – Ambient Air Results for Sr-90, 1st Calendar Qtr 2009.
6. Table 1 - First Calendar Quarter 2009 Ambient Air Laboratory Results.

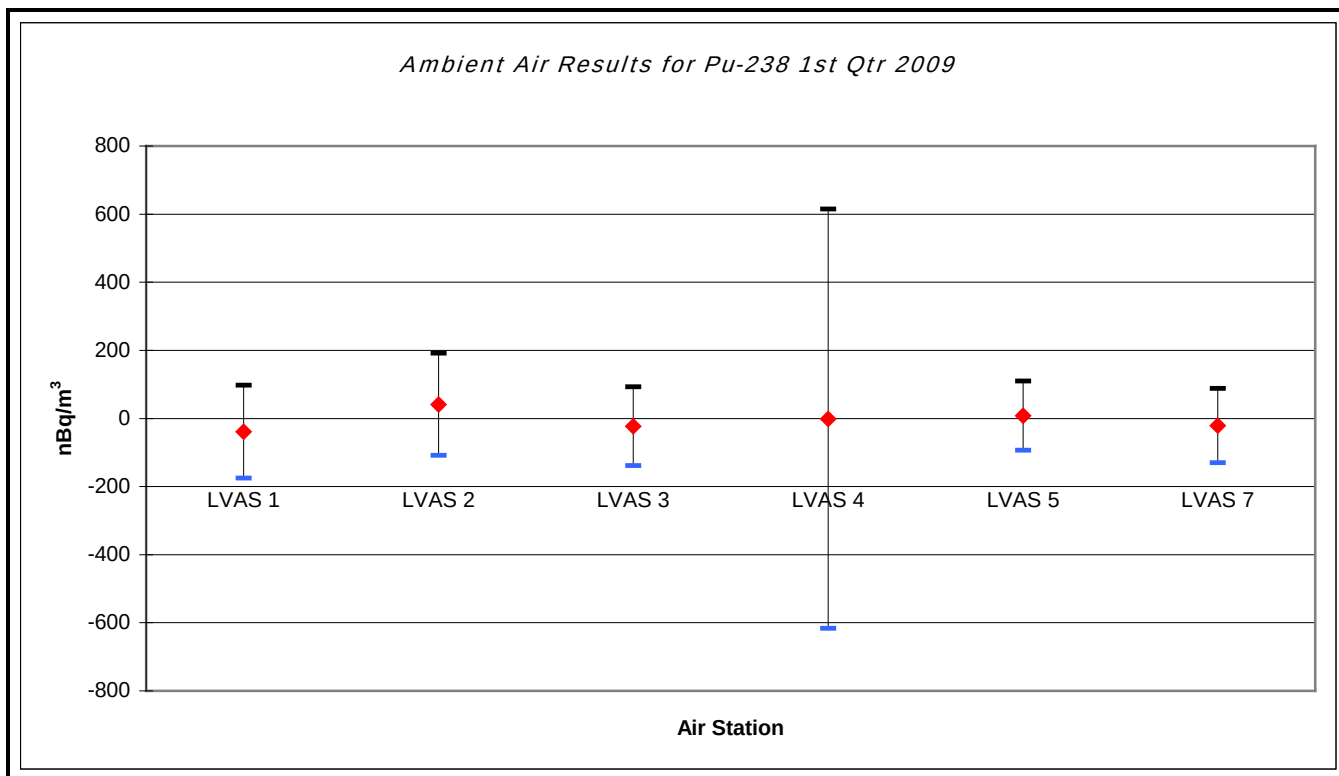
Distribution: Jody Plum, DOE
Dan Ferguson, DOE
Thomas Skibitski, Chief, DOE-OB



Graph 1: Ambient Air Results for Am-241, 1st Qtr 2009

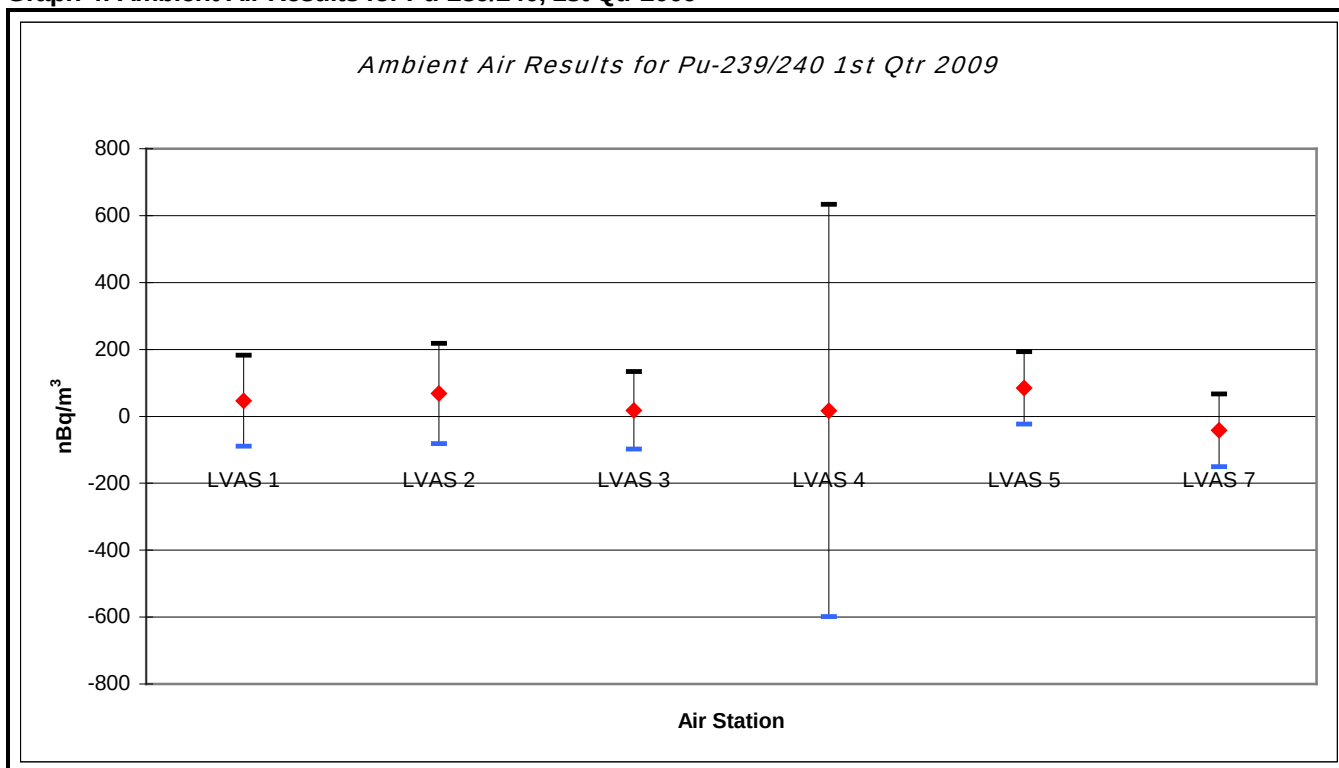
Graph 2: Ambient Air Results for Cs-137, 1st Qtr 2009

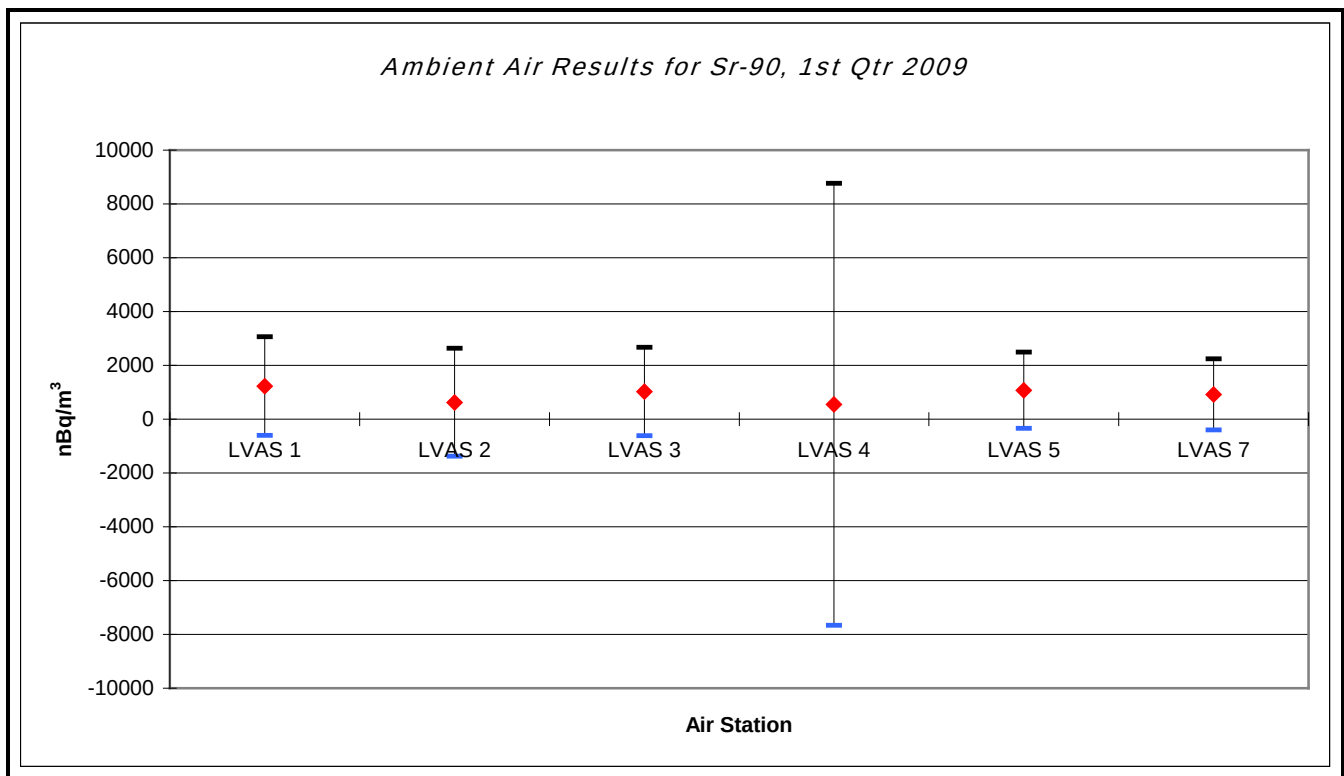




Graph 3: Ambient Air Results for Pu-238, 1st Qtr 2009

Graph 4: Ambient Air Results for Pu-239/240, 1st Qtr 2009





Graph 5: Ambient Air Results for Sr-90, 1st Qtr 2009.

First Calendar Quarter 2009 Ambient Air Laboratory Results

2009 1st Qtr LVAS 1					Data Summaries	
Analyte	Result	2 s TPU	MDC	Lab	Result	Uncertainty (2σ)
	pCi/filter			Flag	nBq/m ³	
Sr 90	0.1800	0.2700	0.5900	U	1222	1833
Pu-239/40	0.0068	0.0200	0.0360	U	46	136
Pu-238	-0.0058	0.0200	0.0400	U	-39	136
Am 241	0.0089	0.0210	0.0320	U	60	143
Cs 137	0.7000	3.0000	5.0000	U	4753	20371
Total Air Flow	5449 m ³					

2009 1st Qtr LVAS 2					Data Summaries	
Analyte	Result	2 s TPU	MDC	Lab	Result	Uncertainty (2σ)
	pCi/filter			Flag	nBq/m ³	
Sr 90	0.0750	0.2400	0.5300	U	625	2001
Pu-239/40	0.0081	0.0180	0.0270	U	68	150
Pu-238	0.0049	0.0180	0.0130	U	41	150
Am 241	0.0049	0.0210	0.0510	U	41	175
Cs 137	-0.1500	2.7000	4.6000	U	-1251	22515
Total Air Flow	4437 m ³					

2009 1st Qtr LVAS 3					Data Summaries	
Analyte	Result	2 s TPU	MDC	Lab	Result	Uncertainty (2σ)
	pCi/filter			Flag	nBq/m ³	
Sr 90	0.1500	0.2400	0.5200	U	1026	1641
Pu-239/40	0.0026	0.0170	0.0390	U	18	116
Pu-238	-0.0034	0.0170	0.0310	U	-23	116
Am 241	0.0220	0.0280	0.0200	LT	150	191
Cs 137	-1.6000	3.0000	5.2000	U, M	-10941	20514
Total Air Flow	5411 m ³					

Qualifiers/Flags

U – Result is less than the sample specific MDC

LT – Result is less than the Requested MDC, greater than sample specific MDC

M – The requested MDC was not met.

Abbreviations

TPU - Total Propagated Uncertainty

MDC – Minimum Detectable Concentration

First Calendar Quarter 2009 Ambient Air Laboratory Results

2009 1st Qtr LVAS 4					Data Summaries	
Analyte	Result	2 s TPU	MDC	Lab	Result	Uncertainty (2σ)
	pCi/filter			Flag	nBq/m ³	
Sr 90	0.1600	0.2400	0.5200	U	548	8215
Pu-239/40	0.0049	0.0180	0.0130	U	17	616
Pu-238	-0.0004	0.0180	0.0370	U	-1	616
Am 241	-0.0065	0.0290	0.0540	U	-22	993
Cs 137	-2.0000	2.5000	4.3000	U	-6846	85569
Total Air Flow 1081 m ³						

2009 1st Qtr LVAS 5					Data Summaries	
Analyte	Result	2 s TPU	MDC	Lab	Result	Uncertainty (2σ)
	pCi/filter			Flag	nBq/m ³	
Sr 90	0.1900	0.2500	0.5400	U	1077	1417
Pu-239/40	0.0150	0.0190	0.0140	LT	85	108
Pu-238	0.0014	0.0180	0.0330	U	8	102
Am 241	0.0000	0.0210	0.0150	U	0	119
Cs 137	-3.9000	2.6000	4.6000	U	-22108	14739
Total Air Flow		6527	m ³			

2009 1st Qtr LVAS 7					Data Summaries	
Analyte	Result	2 s TPU	MDC	Lab	Result	Uncertainty (2σ)
	pCi/filter			Flag	nBq/m ³	
Sr 90	0.1600	0.2300	0.5100	U	916	1317
Pu-239/40	-0.0073	0.0190	0.0420	U	-42	109
Pu-238	-0.0037	0.0190	0.0340	U	-21	109
Am 241	0.0016	0.0160	0.0250	U	9	92
Cs 137	-2.5000	3.0000	5.3000	U, M	-14310	17172
Total Air Flow		6464 m ³				

Qualifiers/Flags

U – Result is less than the sample specific MDC

LT – Result is less than the Requested MDC, greater than sample specific MDC

M – The requested MDC was not met

Abbreviations

TPU – Total Propagated Uncertainty

MDC – Minimum Detectable Concentration